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RAW SEQUENCE LISTING

DATE: 01/09/2002

PATENT APPLICATION: US/09/820,339A

TIME: 14:32:12

Input Set : A:\ES.txt

Output Set: N:\CRF3\01082002\I820339A.raw

ENTERED

3 <110> APPLICANT: FUCHS, Sara
 4 BARCHAN, Dora
 5 SOUROUJON, Miriam
 7 <120> TITLE OF INVENTION: RECOMBINANT FRAGMENTS OF THE HUMAN ACETYLCHOLINE RECEPTOR
 AND THEIR USE
 8 FOR TREATMENT OF MYASTHENIA GRAVIS
 10 <130> FILE REFERENCE: FUCHS=2A
 12 <140> CURRENT APPLICATION NUMBER: US/09/820,339A
 12 <141> CURRENT FILING DATE: 1999-11-08
 12 <150> PRIOR APPLICATION NUMBER: 09/423,398
 13 <151> PRIOR FILING DATE: 1999-11-08
 15 <150> PRIOR APPLICATION NUMBER: PCT/IL98/00211
 16 <151> PRIOR FILING DATE: 1998-05-06
 18 <160> NUMBER OF SEQ ID NOS: 32
 20 <170> SOFTWARE: PatentIn version 3.0
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 23 <211> LENGTH: 630
 24 <212> TYPE: DNA
 25 <213> ORGANISM: Homo sapiens
 27 <400> SEQUENCE: 1
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 30 ccagtgggaag accaccgcca ggtcgtggag gtcaccgtgg gcctgcagct gatacagctc 120
 32 atcaatgtgg atgaagtaaa tcagatcgtg acaaccaatg tgcgtctgaa acagcaatgg 180
 34 gtggattaca acctaaaatg gaatccagat gactatggcg gtgtgaaaaa aattcacatt 240
 36 ccttcagaaa agatctggcg cccagacctt gttctctata acgatgcaga tgggtgacttt 300
 38 gctattgtca agttcaccaa agtgctcctg cagtacactg gccacatcac gtggacacct 360
 40 ccagccatct ttaaaagcta ctgtgagatc atcgtcaccc actttccctt tgatgaacag 420
 42 aactgcagca tgaagctggg cacctggacc tacgacggct ctgtcgtggc catcaaccgg 480
 44 gaaagcgacc agccagacct gagcaacttc atggagagcg gggagtgggt gatcaaggag 540
 46 tcccggggct ggaagcactc cgtgacctat tcctgctgcc ccgacacccc ctacctggac 600
 48 atcacctacc acttcgtcat gcagcgcctg 630
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 52 <211> LENGTH: 210
 53 <212> TYPE: PRT
 54 <213> ORGANISM: Homo sapiens
 56 <400> SEQUENCE: 2
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 59 1 5 10 15
 61 Ser Val Val Arg Pro Val Glu Asp His Arg Gln Val Val Glu Val Thr
 62 20 25 30
 64 Ala Gly Leu Gln Leu Ile Gln Leu Ile Asn Val Asp Glu Val Asn Gln
 65 35 40 45
 67 Ile Val Thr Thr Asn Val Arg Leu Lys Gln Gln Trp Val Asp Tyr Asn
 68 50 55 60
 70 Leu Lys Trp Asn Pro Asp Asp Tyr Gly Gly Val Lys Lys Ile His Ile
 71 65 70 75 80
 73 Pro Ser Glu Lys Ile Trp Arg Pro Asp Leu Val Leu Tyr Asn Asn Ala
 74 85 90 95

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76 Asp Gly Asp Phe Ala Ile Val Lys Phe Thr Lys Val Leu Leu Gln Tyr
77          100          105          110
79 Thr Gly His Ile Thr Trp Thr Pro Pro Ala Ile Phe Lys Ser Tyr Cys
80          115          120          125
82 Glu Ile Ile Val Thr His Phe Pro Phe Asp Glu Gln Asn Cys Ser Met
83          130          135          140
85 Lys Leu Gly Thr Trp Thr Tyr Asp Gly Ser Val Val Ala Ile Asn Pro
86 145          150          155          160
88 Glu Ser Asp Gln Pro Asp Leu Ser Asn Phe Met Glu Ser Gly Glu Trp
89          165          170          175
91 Val Ile Lys Glu Ser Arg Gly Trp Lys His Ser Val Thr Tyr Ser Cys
92          180          185          190
94 Cys Pro Asp Thr Pro Tyr Leu Asp Ile Thr Tyr His Phe Val Met Gln
95          195          200          205
97 Arg Leu
98          210

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100 <210> SEQ ID NO: 3

101 <211> LENGTH: 75

102 <212> TYPE: DNA

103 <213> ORGANISM: Homo sapiens

105 <400> SEQUENCE: 3

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108 catctgcagg atgag

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111 <210> SEQ ID NO: 4

112 <211> LENGTH: 25

113 <212> TYPE: PRT

114 <213> ORGANISM: Homo sapiens

116 <400> SEQUENCE: 4

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119 1 5 10 15

121 Pro Leu Phe Ser His Leu Gln Asp Glu

122 20 25

124 <210> SEQ ID NO: 5

125 <211> LENGTH: 705

126 <212> TYPE: DNA

127 <213> ORGANISM: Homo sapiens

129 <400> SEQUENCE: 5

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132 ccagtgggaag accaccgcca ggtcgtggag gtcaccgtgg gcctgcagct gatacagctc

120

134 atcaatgtgg atgaagtaaa tcagatcgtg acaaccaatg tgcgtctgaa acaggggtgac

180

136 atggtagatc tgccacgccc cagctgcgtg actttgggag ttctttgtt ttctcatctg

240

138 caggatgagc aatgggtgga ttacaacctt aaatggaatc cagatgacta tggcggtgtg

300

140 aaaaaaattc acattccttc agaaaagatc tggcgccagc acctgttct ctataacgat

360

142 gcagatggtg actttgctat tgtcaagttc accaaagtgc tctgcagta cactggccac

420

144 atcacgtgga caccctccagc catcttttaa agctactgtg agatcatcgt caccacttt

480

146 ccctttgatg aacagaactg cagcatgaag ctgggcacct ggacctacga cggctctgtc

540

148 gtggccatca acccggaagc cgaccagcca gacctgagca acttcatgga gagcgggag

600

150 tgggtgatca aggagtccc gggctggaag cactccgtga cctattcctg ctgccccgac

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152 accccctacc tggacatcac ctaccacttc gtcatgcagc gcctg

705

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155 <210> SEQ ID NO: 6
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157 <212> TYPE: PRT
158 <213> ORGANISM: Homo sapiens
160 <400> SEQUENCE: 6
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163 1 5 10 15
165 Ser Val Val Arg Pro Val Glu Asp His Arg Gln Val Val Glu Val Thr
166 20 25 30
168 Ala Gly Leu Gln Leu Ile Gln Leu Ile Asn Val Asp Glu Val Asn Gln
169 35 40 45
171 Ile Val Thr Thr Asn Val Arg Leu Lys Gln Gly Asp Met Val Asp Leu
172 50 55 60
174 Pro Arg Pro Ser Cys Val Thr Leu Gly Val Pro Leu Phe Ser His Leu
175 65 70 75 80
177 Gln Asp Glu Gln Trp Val Asp Tyr Asn Leu Lys Trp Asn Pro Asp Asp
178 85 90 95
180 Tyr Gly Gly Val Lys Lys Ile His Ile Pro Ser Glu Lys Ile Trp Arg
181 100 105 110
183 Pro Asp Leu Val Leu Tyr Asn Asn Ala Asp Gly Asp Phe Ala Ile Val
184 115 120 125
186 Lys Phe Thr Lys Val Leu Leu Gln Tyr Thr Gly His Ile Thr Trp Thr
187 130 135 140
189 Pro Pro Ala Ile Phe Lys Ser Tyr Cys Glu Ile Ile Val Thr His Phe
190 145 150 155 160
192 Pro Phe Asp Glu Gln Asn Cys Ser Met Lys Leu Gly Thr Trp Thr Tyr
193 165 170 175
195 Asp Gly Ser Val Val Ala Ile Asn Pro Glu Ser Asp Gln Pro Asp Leu
196 180 185 190
198 Ser Asn Phe Met Glu Ser Gly Glu Trp Val Ile Lys Glu Ser Arg Gly
199 195 200 205
201 Trp Lys His Ser Val Thr Tyr Ser Cys Cys Pro Asp Thr Pro Tyr Leu
202 210 215 220
204 Asp Ile Thr Tyr His Phe Val Met Gln Arg Leu
205 225 230 235

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207 <210> SEQ ID NO: 7
208 <211> LENGTH: 690
209 <212> TYPE: DNA
210 <213> ORGANISM: Homo sapiens
212 <400> SEQUENCE: 7
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215 ccagtgggaag accaccgcca ggtcgtggag gtcaccgtgg gcctgcagct gatacagctc 120
217 atcaatgtgg atgaagtaaa tcagatcgtg acaaccaatg tgcgtctgaa acaggggtgac 180
219 atggtagatc tgccacgccc cagctgcgtg actttgggag ttctttgtt ttctcatctg 240
221 caggatgagc aatgggtgga ttacaacctt aaatggaatc cagatgacta tggcggtgtg 300
223 aaaaaaattc acattccttc agaaaagatc tggcgcccag acctgttct ctataacgat 360
225 gcagatggtg actttgctat tgtcaagttc accaaagtgc tcctgcagta cactggccac 420
227 atcacgtgga caccctcagc catctttaaa agctactgtg agatcatcgt caccacttt 480
229 ccctttgatg aacagaactg cagcatgaag ctgggcacct ggacctacga cggctctgtc 540

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231 gtggccatca acccggaag cgaccagcca gacctgagca acttcatgga gagcggggag      600
233 tgggtgatca aggagtcccg gggctggaag cactccgtga cctattcctg ctgccccgac      660
235 accccctacc tggacatcac ctaccacttc                                     690

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238 <210> SEQ ID NO: 8

239 <211> LENGTH: 230

240 <212> TYPE: PRT

241 <213> ORGANISM: Homo sapiens

243 <400> SEQUENCE: 8

245 Ser Glu His Glu Thr Arg Leu Val Ala Lys Leu Phe Lys Asp Tyr Ser

246 1 5 10 15

248 Ser Val Val Arg Pro Val Glu Asp His Arg Gln Val Val Glu Val Thr

249 20 25 30

251 Ala Gly Leu Gln Leu Ile Gln Leu Ile Asn Val Asp Glu Val Asn Gln

252 35 40 45

254 Ile Val Thr Thr Asn Val Arg Leu Lys Gln Gly Asp Met Val Asp Leu

255 50 55 60

257 Pro Arg Pro Ser Cys Val Thr Leu Gly Val Pro Leu Phe Ser His Leu

258 65 70 75 80

260 Gln Asp Glu Gln Trp Val Asp Tyr Asn Leu Lys Trp Asn Pro Asp Asp

261 85 90 95

263 Tyr Gly Gly Val Lys Lys Ile His Ile Pro Ser Glu Lys Ile Trp Arg

264 100 105 110

266 Pro Asp Leu Val Leu Tyr Asn Asn Ala Asp Gly Asp Phe Ala Ile Val

267 115 120 125

269 Lys Phe Thr Lys Val Leu Leu Gln Tyr Thr Gly His Ile Thr Trp Thr

270 130 135 140

272 Pro Pro Ala Ile Phe Lys Ser Tyr Cys Glu Ile Ile Val Thr His Phe

273 145 150 155 160

275 Pro Phe Asp Glu Gln Asn Cys Ser Met Lys Leu Gly Thr Trp Thr Tyr

276 165 170 175

278 Asp Gly Ser Val Ala Ile Asn Pro Glu Ser Asp Gln Pro Asp Leu

279 180 185 190

281 Ser Asn Phe Met Glu Ser Gly Glu Trp Val Ile Lys Glu Ser Arg Gly

282 195 200 205

284 Trp Lys His Ser Val Thr Tyr Ser Cys Cys Pro Asp Thr Pro Tyr Leu

285 210 215 220

287 Asp Ile Thr Tyr His Phe

288 225 230

290 <210> SEQ ID NO: 9

291 <211> LENGTH: 20

292 <212> TYPE: DNA

C--> 293 <213> ORGANISM: Artificial

295 <220> FEATURE:

296 <223> OTHER INFORMATION: synthetic

298 <400> SEQUENCE: 9

299 ccg gatccga acatgagacc

20

302 <210> SEQ ID NO: 10

303 <211> LENGTH: 23

304 <212> TYPE: DNA

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Input Set : A:\ES.txt
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C--> 305 <213> ORGANISM: Artificial
      307 <220> FEATURE:
      308 <223> OTHER INFORMATION: synthetic
      310 <400> SEQUENCE: 10
      311 cggaattcca ggcgctgcat gac 23
      314 <210> SEQ ID NO: 11
      315 <211> LENGTH: 26
      316 <212> TYPE: DNA
C--> 317 <213> ORGANISM: Artificial
      319 <220> FEATURE:
      320 <223> OTHER INFORMATION: synthetic
      322 <400> SEQUENCE: 11
      323 cggaattctg gaggtgtcca cgtgat 26
      326 <210> SEQ ID NO: 12
      327 <211> LENGTH: 23
      328 <212> TYPE: DNA
C--> 329 <213> ORGANISM: Artificial
      331 <220> FEATURE:
      332 <223> OTHER INFORMATION: synthetic
      334 <400> SEQUENCE: 12
      335 ccggatccgc catctttaaa agc 23
      338 <210> SEQ ID NO: 13
      339 <211> LENGTH: 25
      340 <212> TYPE: DNA
C--> 341 <213> ORGANISM: Artificial
      343 <220> FEATURE:
      344 <223> OTHER INFORMATION: synthetic
      346 <400> SEQUENCE: 13
      347 ggccatgggc tccgaacatg agacc 25
      350 <210> SEQ ID NO: 14
      351 <211> LENGTH: 29
      352 <212> TYPE: DNA
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      355 <220> FEATURE:
      356 <223> OTHER INFORMATION: synthetic
      358 <400> SEQUENCE: 14
      359 ccggatcctc aaaagtgrta ggtgatrta 29
      362 <210> SEQ ID NO: 15
      363 <211> LENGTH: 24
      364 <212> TYPE: DNA
C--> 365 <213> ORGANISM: Artificial
      367 <220> FEATURE:
      368 <223> OTHER INFORMATION: synthetic
      370 <400> SEQUENCE: 15
      371 cgctatgggg ctgcttggtg acag 24
      374 <210> SEQ ID NO: 16
      375 <211> LENGTH: 24
      376 <212> TYPE: DNA
C--> 377 <213> ORGANISM: Artificial
  
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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/820,339A

DATE: 01/09/2002

TIME: 14:32:13

Input Set : A:\ES.txt

Output Set: N:\CRF3\01082002\I820339A.raw

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L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
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L:305 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:10
L:317 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:11
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